FIG. 1

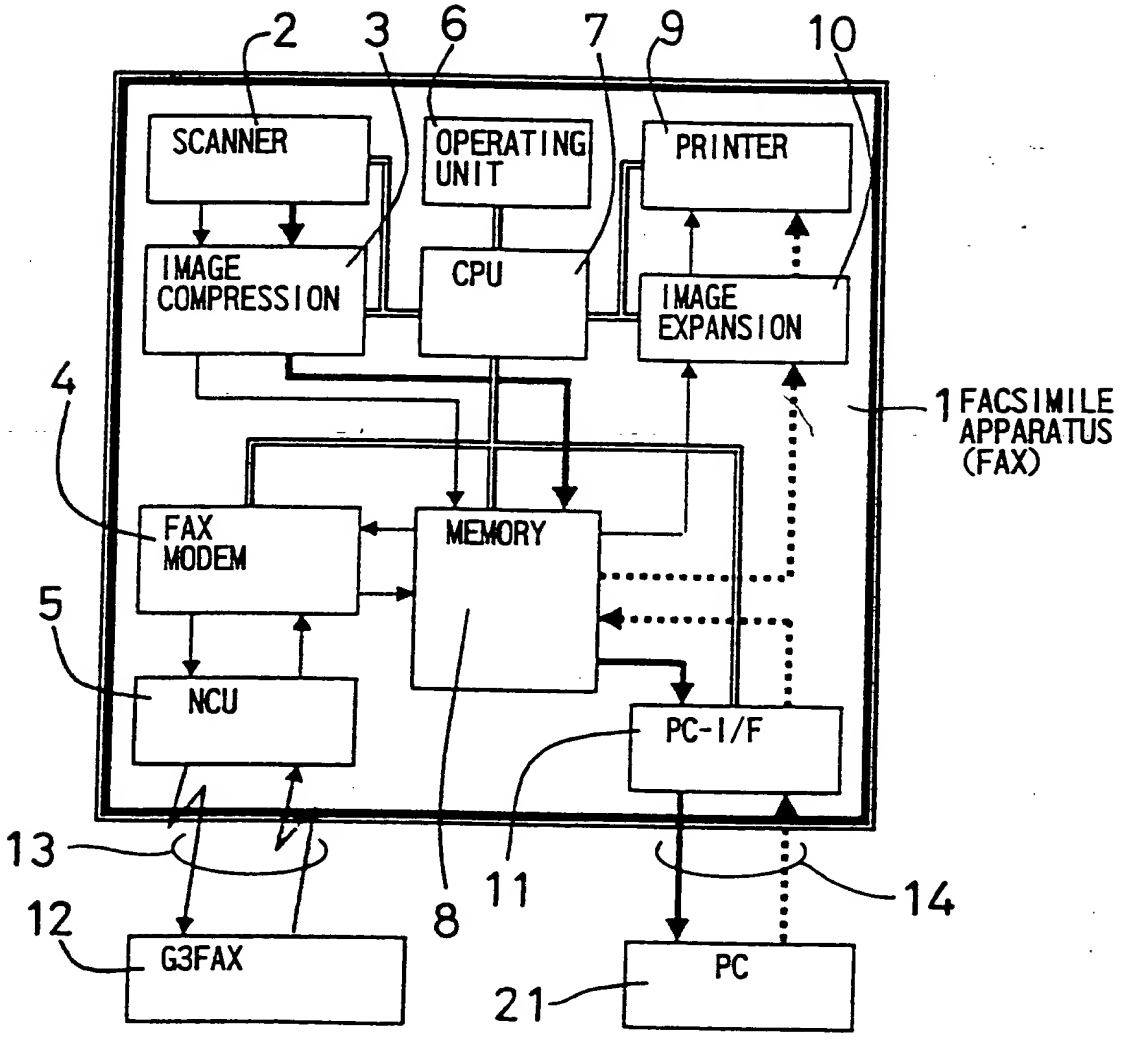
2
3
6
7
9
10
SCANNER
OPERATING UNIT
PRINTER
IMAGE COMPRESSION
CPU
IMAGE EXPANSION
4
1 FACSIMILE APPARATUS (FAX)
FAX MODEM
MEMORY
5
NCU
PC-I/F
13
11
14
12
8
G3FAX
PC
21

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FIG. 2

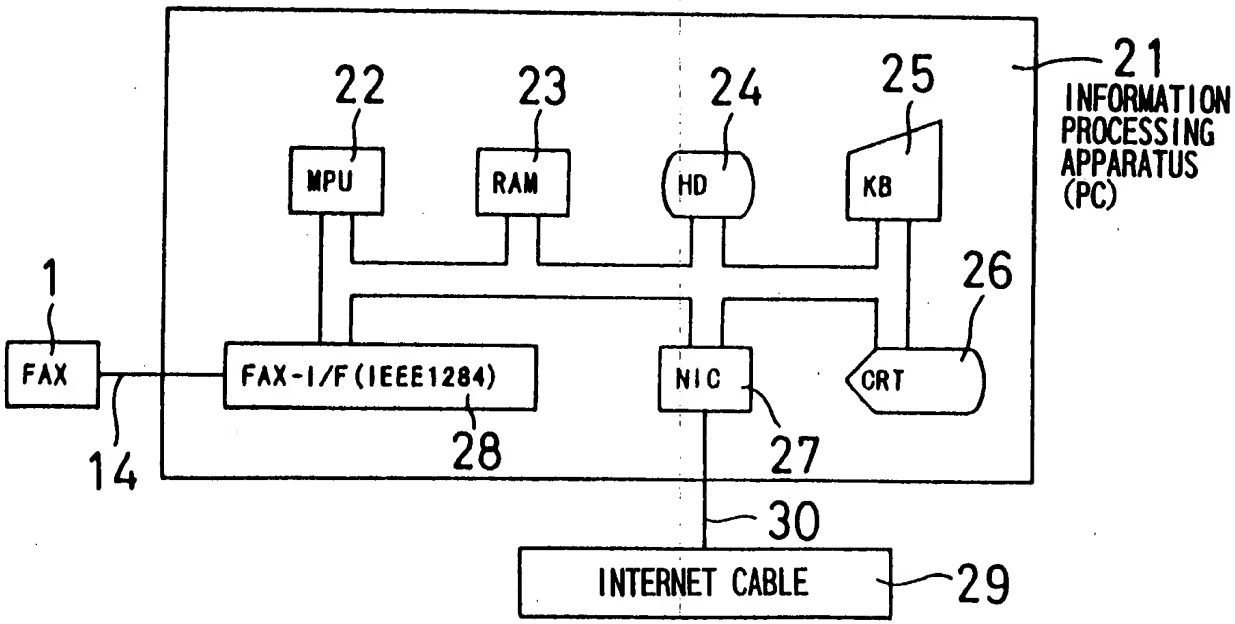

FIG. 3

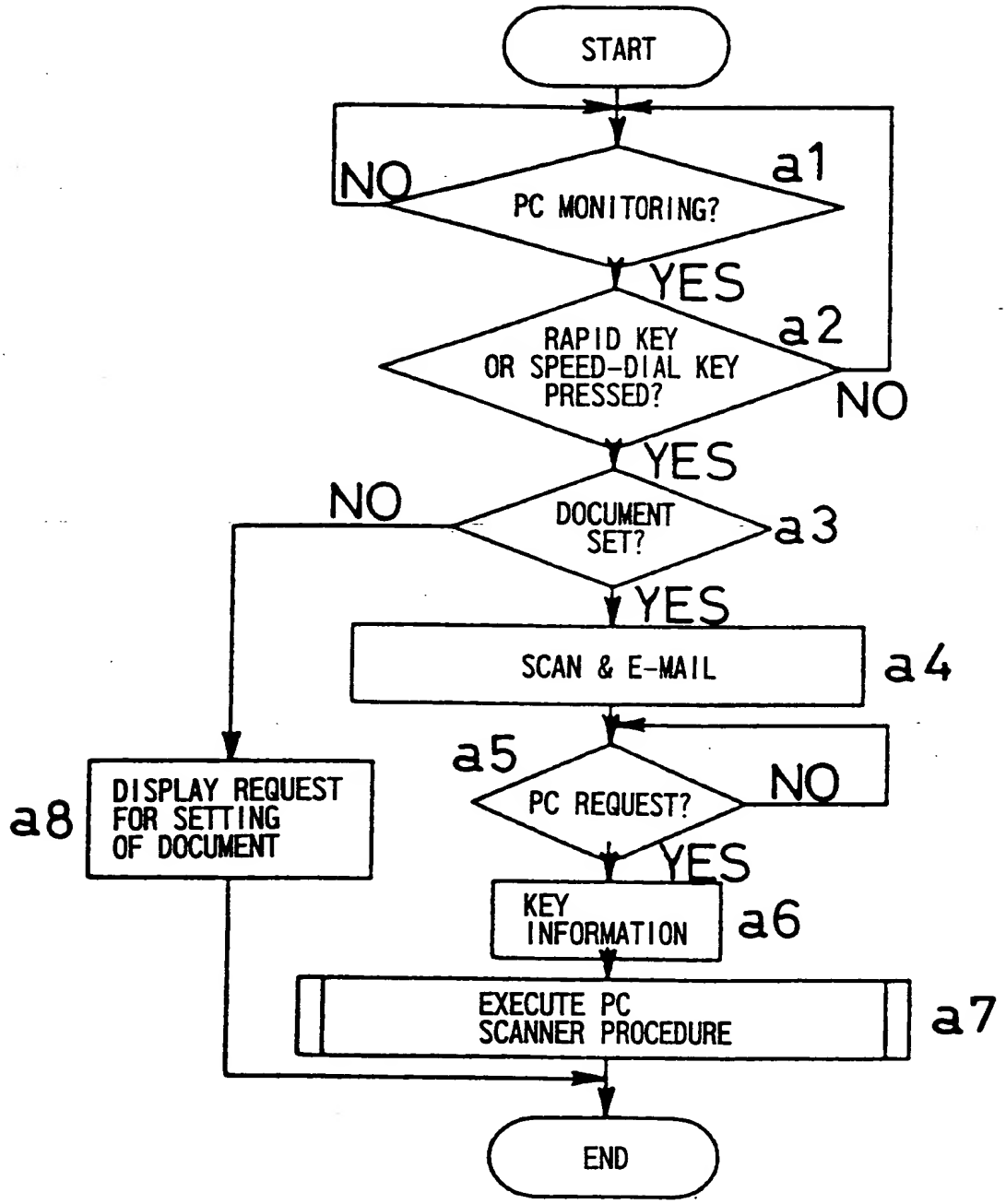
START
NO
a1
PC MONITORING?
YES
RAPID KEY
OR SPEED-DIAL KEY
PRESSED?
a2
NO
YES
NO
DOCUMENT
SET?
a3
YES
SCAN & E-MAIL
a4
a5
PC REQUEST?
NO
YES
a8
DISPLAY REQUEST
FOR SETTING
OF DOCUMENT
KEY
INFORMATION
a6
EXECUTE PC
SCANNER PROCEDURE
a7
END

FIG. 4

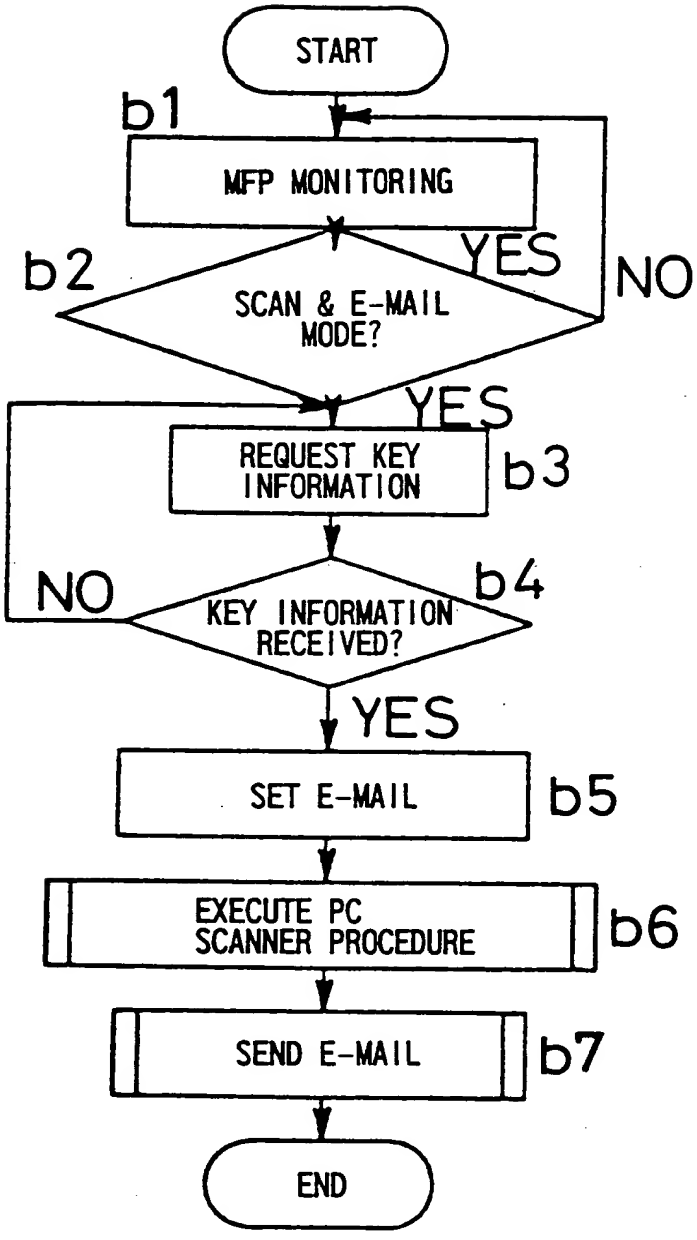
START
b1
MFP MONITORING
b2
SCAN & E-MAIL MODE?
YES
NO
YES
REQUEST KEY INFORMATION
b3
NO
KEY INFORMATION RECEIVED?
b4
YES
SET E-MAIL
b5
EXECUTE PC SCANNER PROCEDURE
b6
SEND E-MAIL
b7
END

FIG. 5

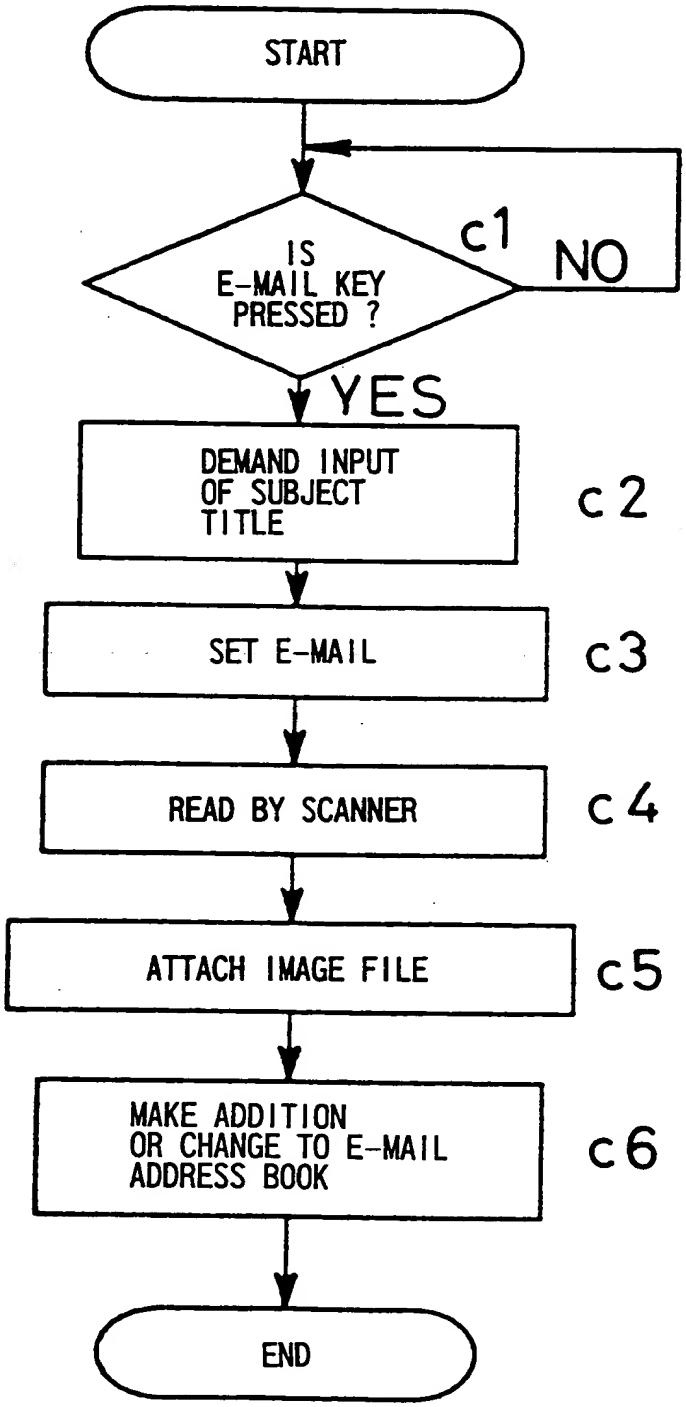
START
IS E-MAIL KEY PRESSED ?
c1
NO
YES
DEMAND INPUT OF SUBJECT TITLE
c2
SET E-MAIL
c3
READ BY SCANNER
c4
ATTACH IMAGE FILE
c5
MAKE ADDITION OR CHANGE TO E-MAIL ADDRESS BOOK
c6
END

FIG. 6

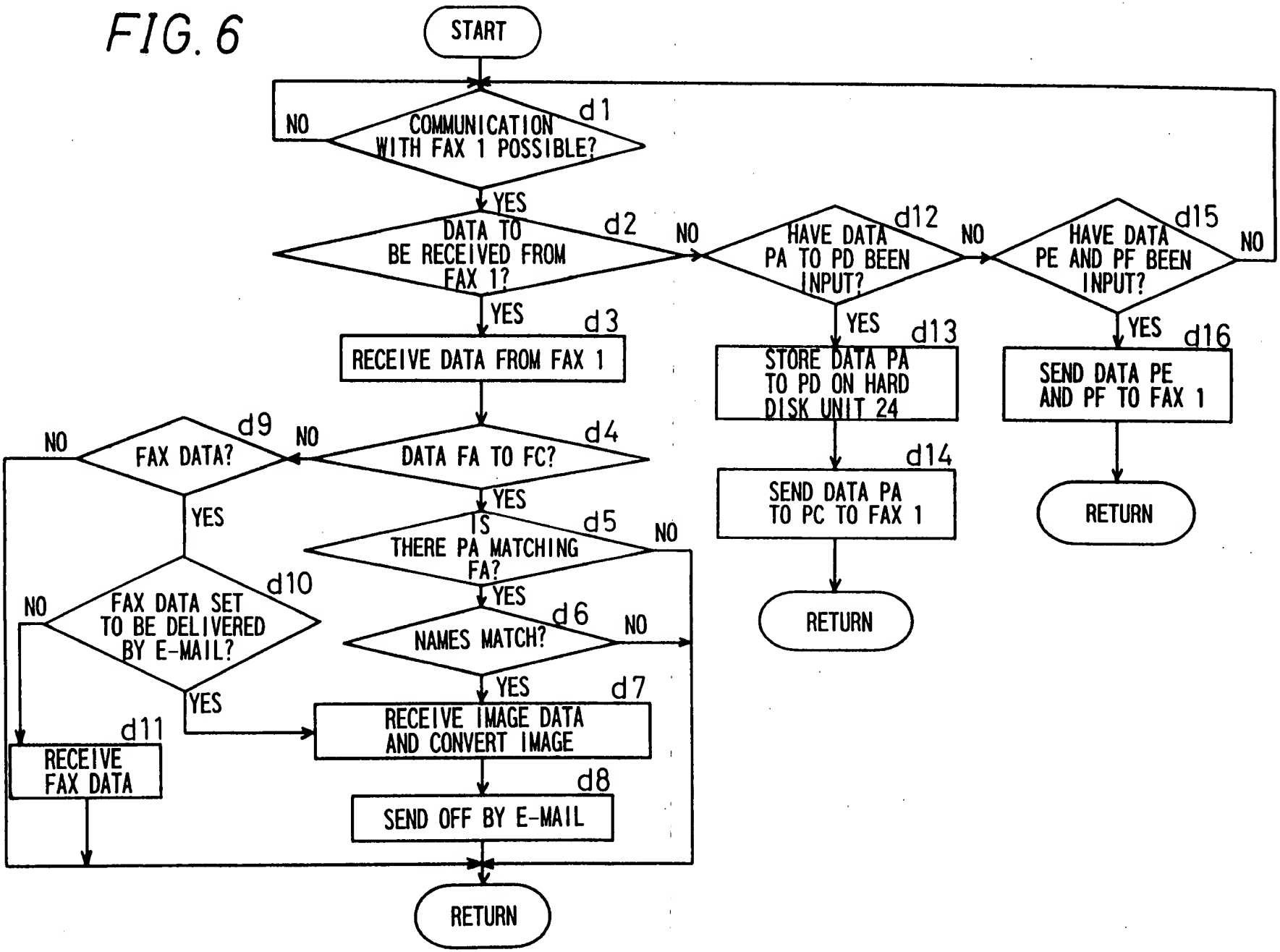
START
d1
COMMUNICATION WITH FAX 1 POSSIBLE?
NO
YES
d2
DATA TO BE RECEIVED FROM FAX 1?
NO
YES
d3
RECEIVE DATA FROM FAX 1
d4
DATA FA TO FC?
NO
YES
d5
IS THERE PA MATCHING FA?
NO
YES
d6
NAMES MATCH?
NO
YES
d7
RECEIVE IMAGE DATA AND CONVERT IMAGE
d8
SEND OFF BY E-MAIL
d9
FAX DATA?
NO
YES
d10
FAX DATA SET TO BE DELIVERED BY E-MAIL?
NO
YES
d11
RECEIVE FAX DATA
RETURN
d12
HAVE DATA PA TO PD BEEN INPUT?
NO
YES
d13
STORE DATA PA TO PD ON HARD DISK UNIT 24
d14
SEND DATA PA TO PC TO FAX 1
RETURN
d15
HAVE DATA PE AND PF BEEN INPUT?
NO
YES
d16
SEND DATA PE AND PF TO FAX 1
RETURN

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FIG. 7

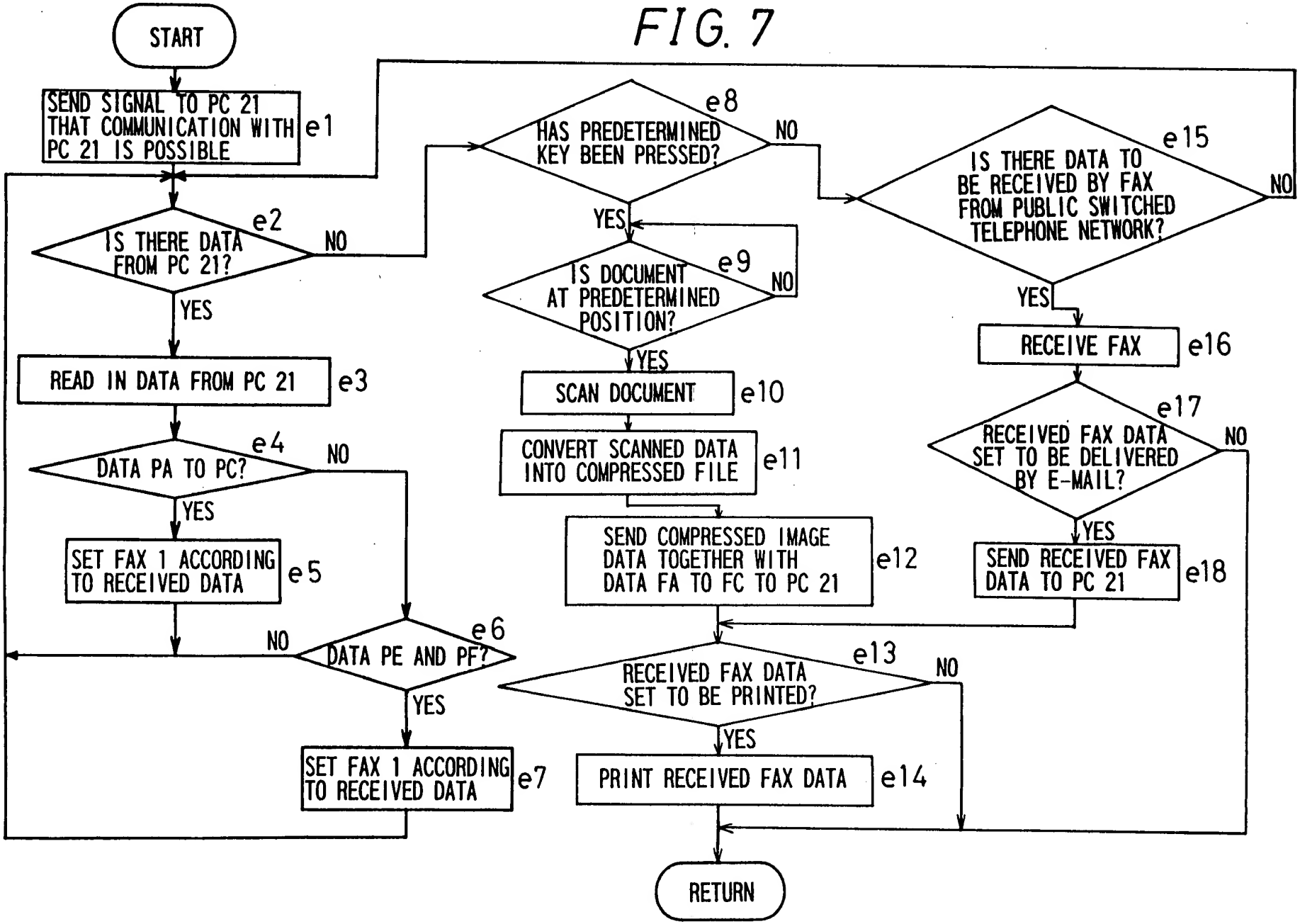

FIG. 8

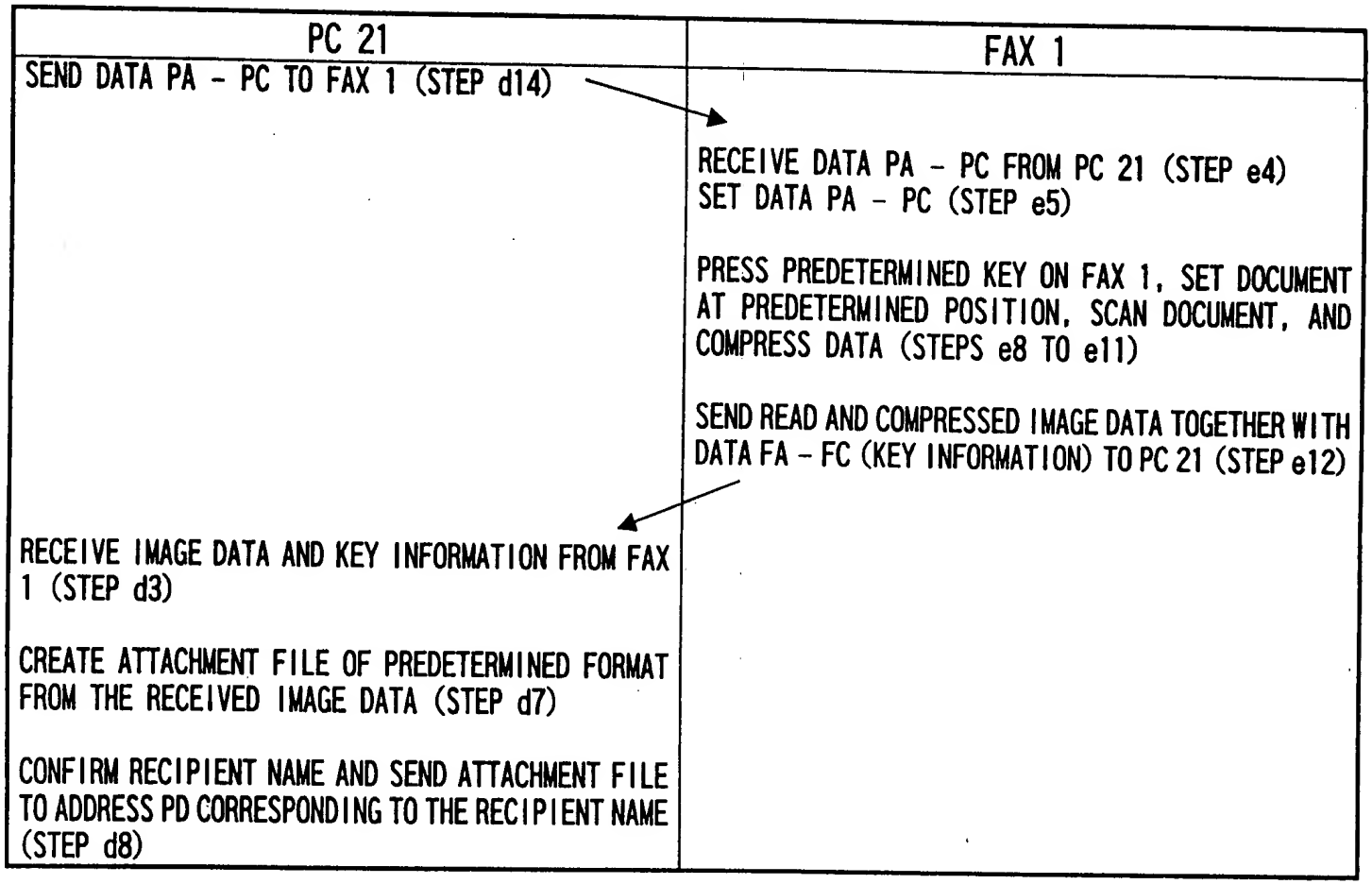
PC 21
FAX 1
SEND DATA PA - PC TO FAX 1 (STEP d14)
RECEIVE DATA PA - PC FROM PC 21 (STEP e4)
SET DATA PA - PC (STEP e5)
PRESS PREDETERMINED KEY ON FAX 1, SET DOCUMENT AT PREDETERMINED POSITION, SCAN DOCUMENT, AND COMPRESS DATA (STEPS e8 TO e11)
SEND READ AND COMPRESSED IMAGE DATA TOGETHER WITH DATA FA - FC (KEY INFORMATION) TO PC 21 (STEP e12)
RECEIVE IMAGE DATA AND KEY INFORMATION FROM FAX 1 (STEP d3)
CREATE ATTACHMENT FILE OF PREDETERMINED FORMAT FROM THE RECEIVED IMAGE DATA (STEP d7)
CONFIRM RECIPIENT NAME AND SEND ATTACHMENT FILE TO ADDRESS PD CORRESPONDING TO THE RECIPIENT NAME (STEP d8)

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FIG. 9

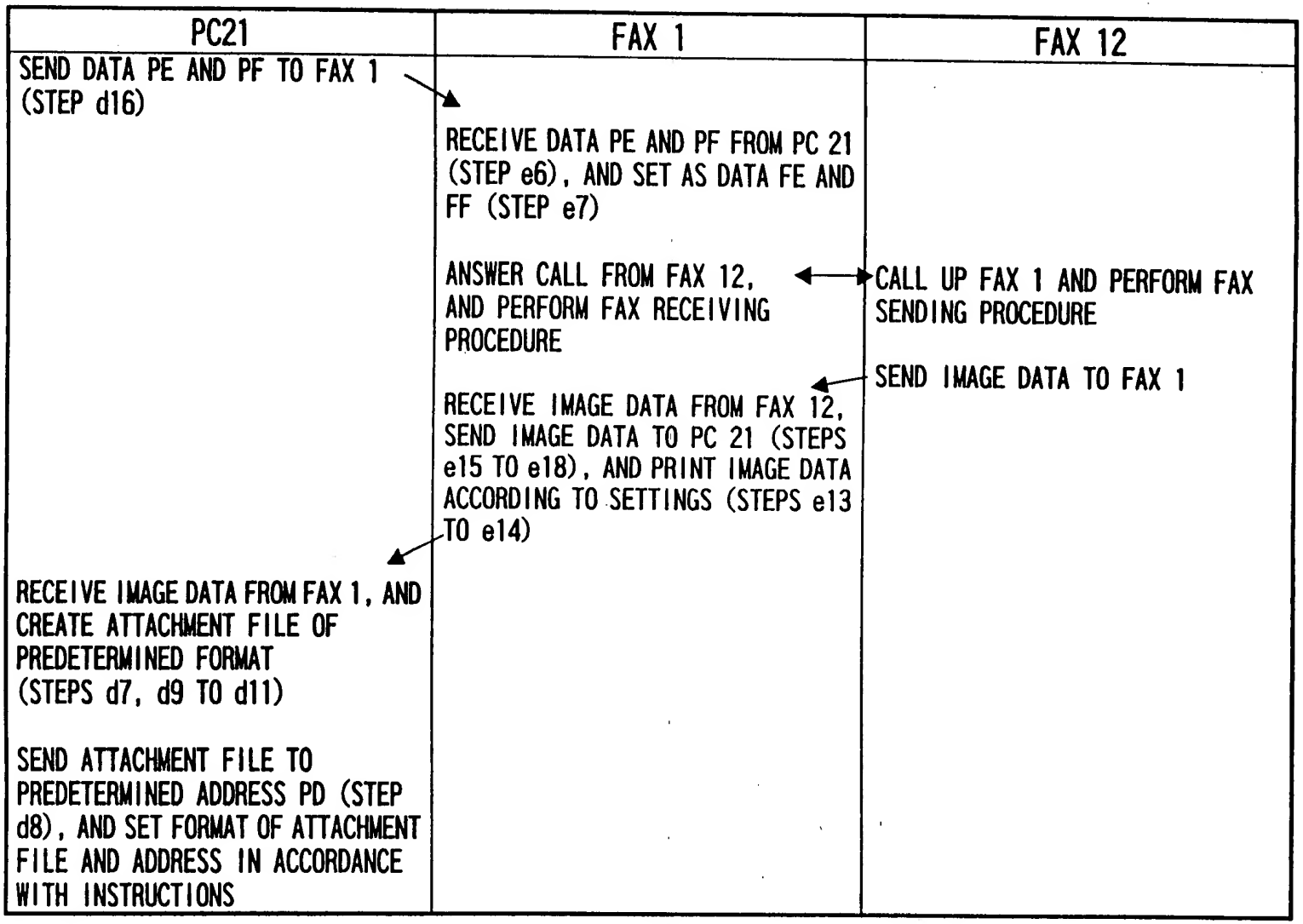

FIG. 10

No (41)	NAME (42)	E-MAIL ADDRESS (43)
1	"ISHIKAWA"	ishikawa@###.####.#####.##.##
2	"SUZUKI"	suzuki@###.####.#####.##.##
3	"SATO"	sato@###.####.#####.##.##
4	"YAMADA"	yamada@###.####.#####.##.##

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FIG. 11

44 CODE CORRESPONDING TO KEY	45 NAME	46 NUMBER
0x10 0x00	0x49 0x53 0x48 0x49 0x4b 0x41 0x57 0x41 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x30 0x37 0x34 0x33 0x35 0x35 0x34 0x30 0x32 0x34 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x11 0x00	0x53 0x55 0x5a 0x55 0x4b 0x49 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x30 0x34 0x35 0x31 0x32 0x33 0x34 0x35 0x36 0x37 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x12 0x00	0x53 0x41 0x54 0x4f 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0xfo 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x13 0x00	0x59 0x41 0x4d 0x41 0x44 0x41 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0xfo 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

FIG. 12

No (47)	NAME (48)	NUMBER (49)
1	"ISHIKAWA"	"0743554024"
2	"SUZUKI"	"0451234567"
3	"SATO"	0xfa
4	"YAMADA"	0xfa

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FIG. 13

PC TELEPHONE NUMBER LIST

Rapid# Speed#	Name	Number
R01	ISHIKAWA	0743-55-4204
R02	SUZUKI	045-123-4567

PC E-MAIL LIST

Rapid# Speed#	Name	Email Setting/Scan Setting
R03	SATO	App :Microsoft Outlook Express Sub :Important message TO :suzuki@sharpeye.com CC :ishikawa@abc.co.jp BCC:amber@mssft.com Scan:200×200dpi, Medium, Letter, LineArt, PCX
R04	YAMADA	App :Netscape Messenger Sub :Network devices TO :bmarf@alaska.com CC :frank@sbc.com BCC:twatt@nbc.com Scan:300×300dpi, Light, A4, Grayscale, BMP

FIG. 14

TELEPHONE NUMBER LIST

AUG – 30 – 1999 MON 12:00 PM

FOR :

RAPID # SPEED #	NAME	TELEPHONE #	CHAIN DIAL
R01	ISHIKAWA	0743554204	
R02	SUZUKI	0451234567	
R03	SATO	E-MAIL STORED	
R04	YAMADA	E-MAIL STORED	

FIG. 15

FAX SIDE TELEPHONE NUMBER LIST

Rapid # Speed #	Name	Number
R01	ISHIKAWA	0743-55-4204
R02	SUZUKI	045-123-4567
R03	SATO	E-Mail
R04	YAMADA	E-Mail

TO6TTO"8TTh9Z60

FIG. 16

FAX / TEL LIST

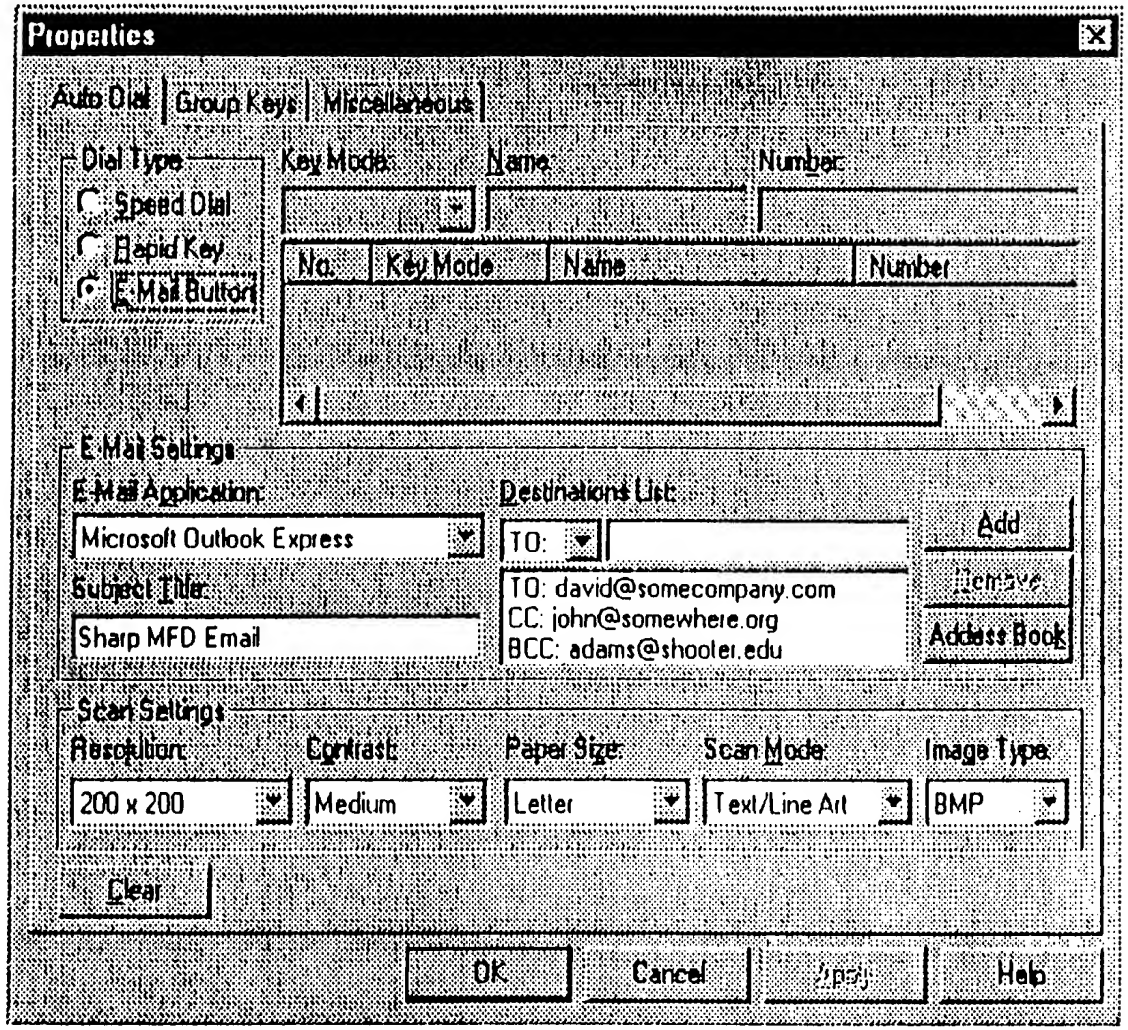
Auto Dial	Name	Number	Mode
S00	Mr Speed	12345678901234567890123456789012	Normal Dial
S01	Harry Kim	425-967-8882	Normal Dial
S03	John Wayne	808-721-0902	Normal Dial
R01	Jim Carson	605-855-7183	Normal Dial
R05	Bart Simpson	660-285-4785	Normal Dial

EMAIL LIST

Auto Dial	Name	Email Setting / Scan Setting
S02	Tom Clark	App : Microsoft Outlook Express Subject: Important message from Sharp TO : maryk@someorg.com CC : jane@somewhere.edu BCC : amyb@webcore.com Scan : 200x200, Medium, Legal, Text/Art Line, PCX
R02	Paul Lee	App : Microsoft Outlook Subject: Daily report from core machine TO : jerryk@echoweb.com Scan : 300x300, Light, A4, Grayscale, BMP

A SAMPLE OF THE AUTO SETTING REPORT

FIG.17



AUTO DIAL SETTINGS (EMAIL BUTTON)

FIG.18 Prior Art

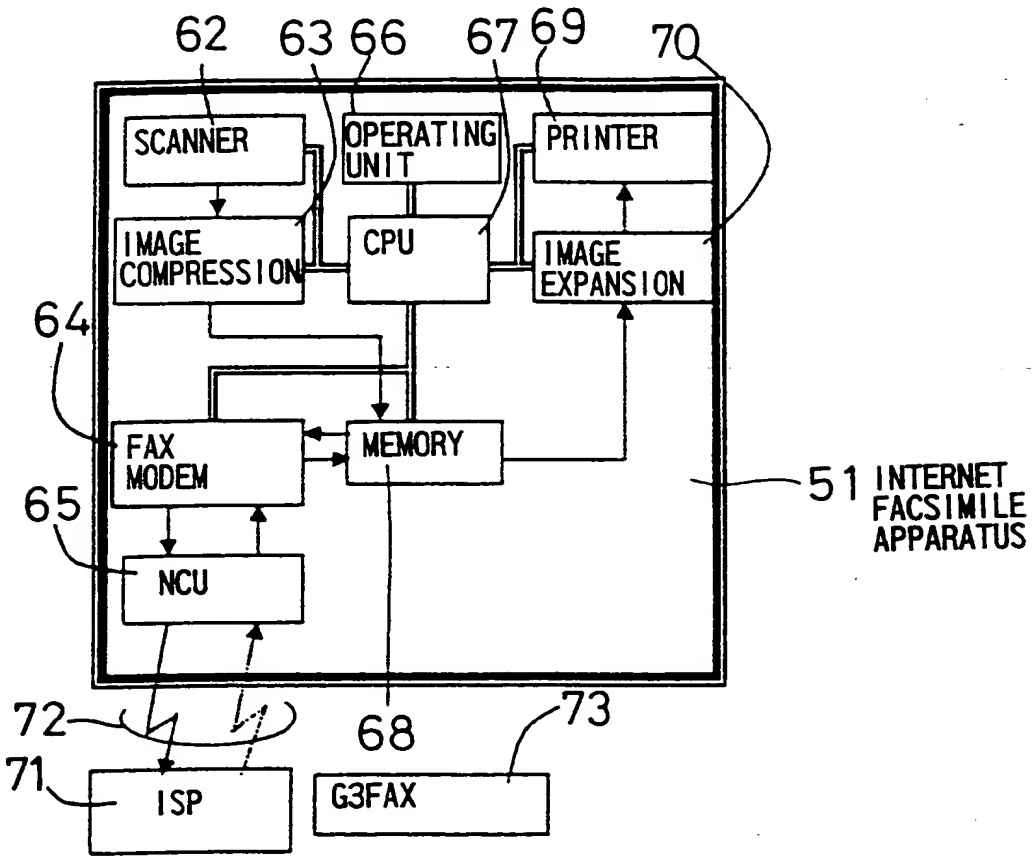


FIG. 19 Prior Art

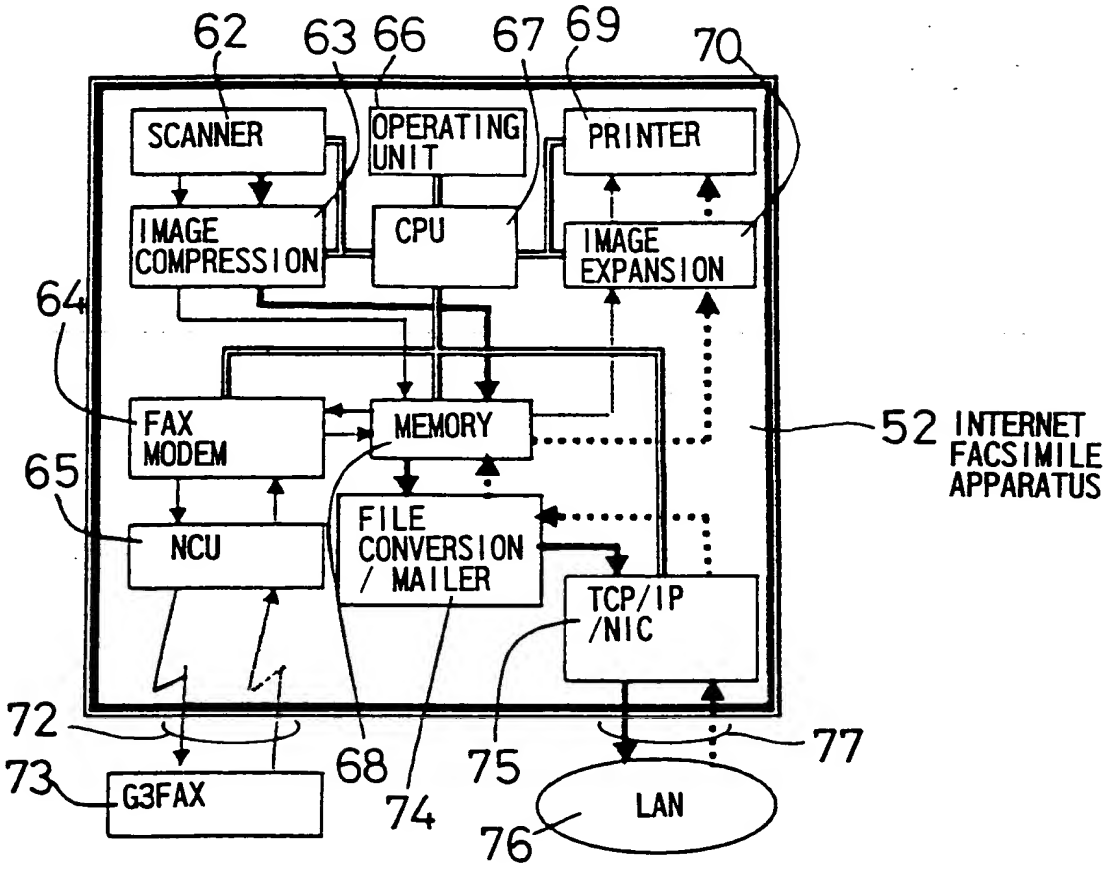
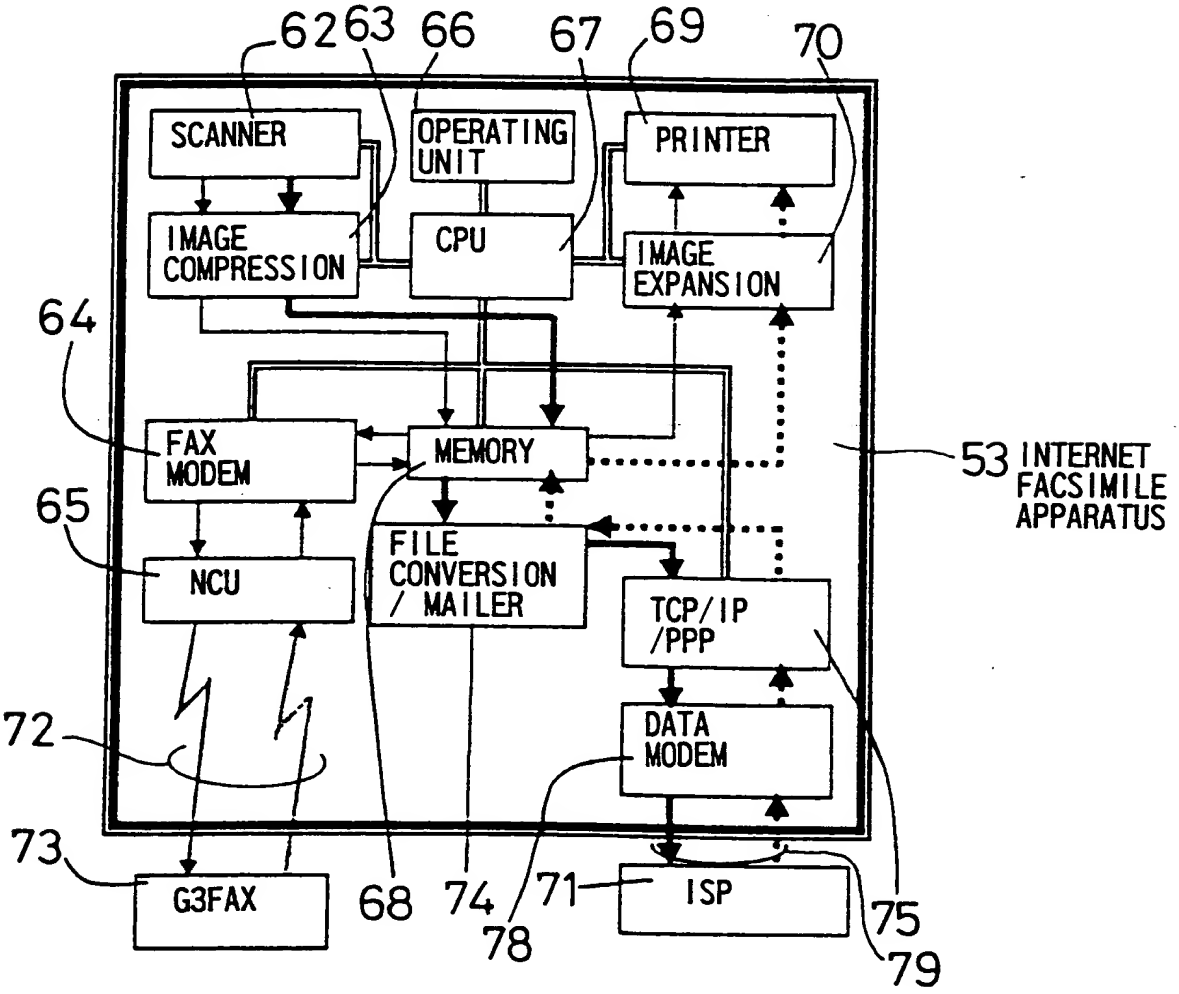



FIG. 20 Prior Art